

**DOUBLE-SIDED, EDGE-MOUNTED STRIPLINE SIGNAL PROCESSING
MODULES AND MODULAR NETWORK**

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ABSTRACT OF THE DISCLOSURE

A class of modular, double-sided, edge-mounted printed circuit (PC) board modules and an associated modular network architecture for constructing stripline signal processing networks including high-power analog amplifiers and beam forming networks for driving multi-beam antenna systems. The stripline signal processing 10 networks are characterized by network elements constructed from defined-length segments of transmission media configured to exhibit precisely determined phase and impedance characteristics. These circuits may also include conventional passive "lumped" electrical elements, such as resistors, capacitors and inductors; non-linear circuit elements such as diodes; and active electrical elements, such as amplifiers 15 and transistors.